



Ransomware:
What is Ransomware?
Why is Ransomware Harmful?
Best Practices You Can Implement to
Avoid Ransomware Attacks

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Tokio Marine- HCC Cyber & Professional Lines Group Reinsurance & Programs

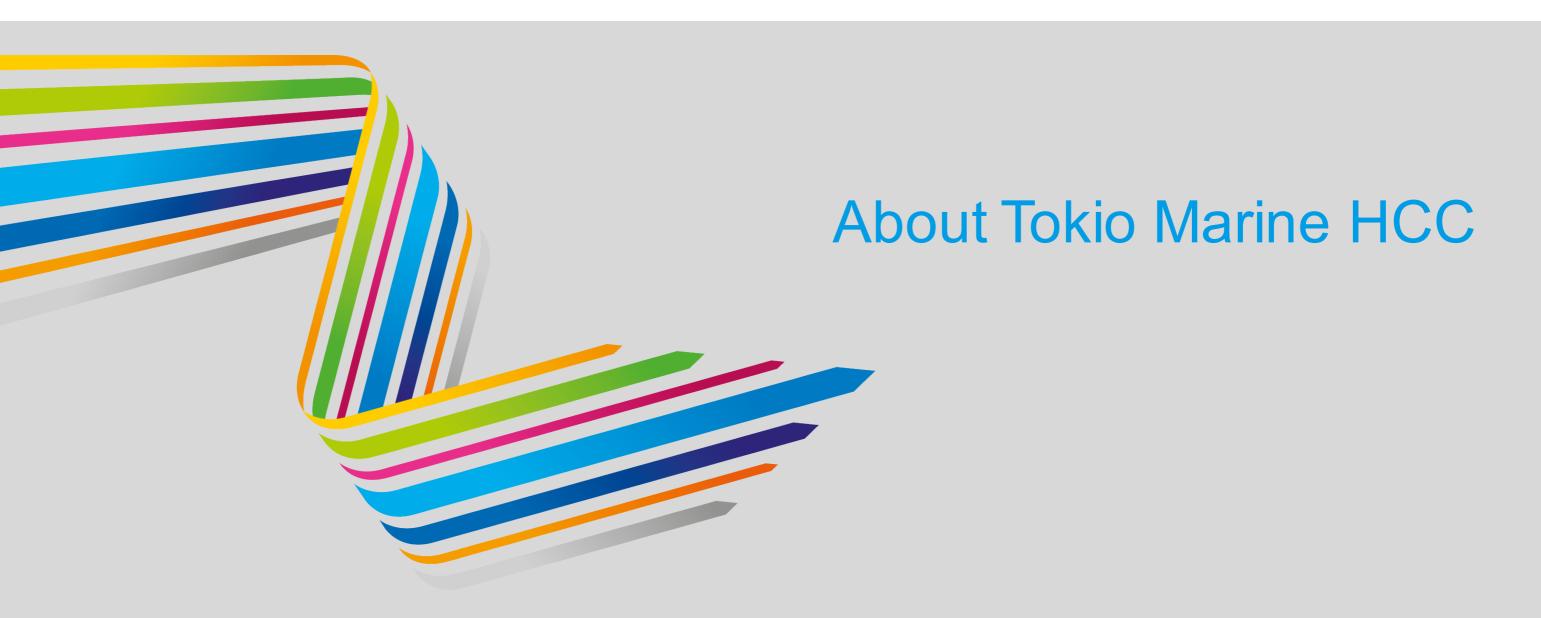


Agenda

- About Tokio Marine HCC
- Cyber Landscape
- What is Ransomware?
- Why is Ransomware Harmful?
- Best Practices to Avoid a Ransomware Attack
- Q&A









Tokio Marine HCC

Part of Tokio Marine, a premier global company

FOUNDED IN

MARKET CAP

1879

33 billion*

Underwrites over

100 CLASSES of specialty insurance

Over

B DIFFERENT BUSINESS UNITS

Highly rated insurance company achieving









Company confidential – Not for distribution

Tokio Marine HCC – Cyber & Professional Lines Group



Tokio Marine HCC – CPLG is the marketing name used to describe the cyber and professional lines related insurance operations of Tokio Marine

HCC

Formed in April 2019

Provides unique specialty insurance solutions

- Product lines include:
 - Tech & Cyber
 - Professional Liability
 - Reinsurance & Programs

Over \$150 million in Annual Cyber Premium

MT. KISCO, NY CHICAGO, IL NEW YORK, NY & CONCORD. CA ENCINO, CA ATLANTA, GA

Over 2,200 cyber matters handled per year





Ripped from the Headlines

Ryuk ransomware responsible for one third of all ransomware attacks in 2020

WannaCry: Massive ransomware infection hits computers in 99 countries

Hackers breached Colonial Pipeline using compromised password

Blackbaud ransomware attack may have impacted millions of individuals

'Payment sent'- travel giant CWT pays \$4.5M ransom to cyber criminals

Ransomware- Global Impact





Catholic Mutual Ransomware Claims Statistics



Contract Year	7/1/2018	7/1/2019	7/1/2020	2021 (YTD)	Total
Ransomware Claims	5	13	16	1	35
Closed	5	13	7	0	25
Open	0	0	9	1	10
Total Paid	\$162,965	\$1,000,484	\$922,774	\$16,151	\$2,103,374
Average Paid	\$32,593	\$76,960	\$57,673	\$16,151	\$60,068





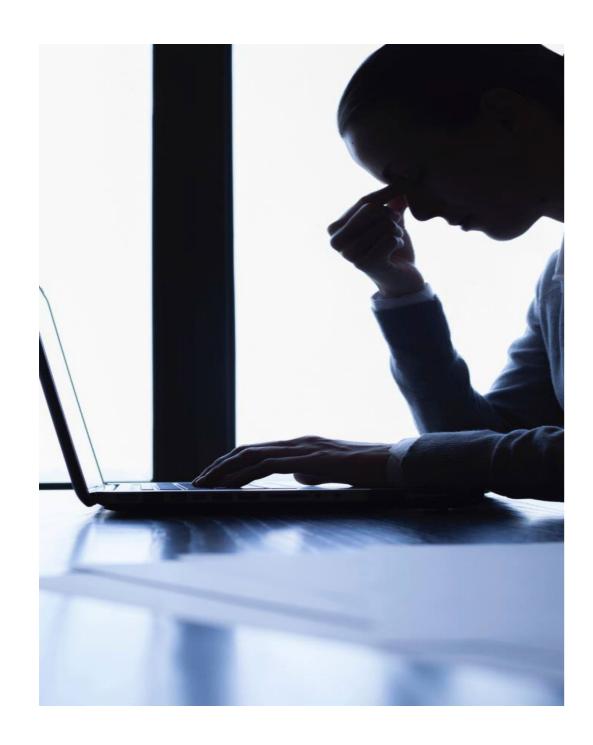
Ransomware is a malware that locks your organization's data and prevents you from accessing it until you pay a ransom.





Ransomware Scenario





An employee opened a link in an email, that appeared to be sent by another employee of the firm, but it was actually sent by a hacker.

The link contained a ransomware virus that, when opened, immediately began to encrypt all files on the employee's computer, including the finance and payroll files.

The virus was discovered when the employee tried to access a file, and an alert appeared on the screen, notifying that all files had been encrypted and could only be unlocked if a 'ransom' was paid in BitCoin.

Examples of Ransomware messages







NOT YOUR LANGUAGE? USE https://translate.google.com

What happened to your files?

All of your files were protected by a strong encryption with RSA4096

More information about the encryption keys using RSA4096 can be found here: http://en.wikipedia.org/wiki/RSA_(cryptosystem)

How did this happen?

!!! Specially for your PC was generated personal RSA4096 Key , both public and private.

!!! ALL YOUR FILES were encrypted with the public key, which has been transferred to your computer via the Internet.

!!! Decrypting of your files is only possible with the help of the private key and decrypt program , which is on our Secret Server

What do I do?

So , there are two ways you can choose: wait for a miracle and get your price doubled, or start obtaining BITCOIN NOW! , and restore your data easy way If You have really valuable data, you better not waste your time, because there is no other way to get your files, except make a payment

Your personal ID:861782E3D50E

For more specific instructions, please visit your personal home page, there are a few different addresses pointing to your page below:

- 1 http://hn5fbbc4pyz77xfa.onion.to
- 2 http://hn5fbbc4pyz77xfa.onion.cab
- 3 http://hn5fbbc4pyz77xfa.onion.city

If for some reasons the addresses are not available, follow these steps:

- 1 Download and install tor-browser: http://www.torproject.org/projects/torbrowser.html.en
- 2 After a successful installation, run the browser
- 3 Type in the address bar http://hn5fbbc4pyz77xfa.onion
- 4 Follow the instructions on the site

Be sure to copy your personal ID and the instruction link to your notepad not to lose them.

OFAC Advisory on Ransomware



- October 2020: The Office of Foreign Assets Control (OFAC) issued an advisory of sanctions risks associated with ransomware payments, related to malicious cyberenable activities. OFAC has designated numerous malicious cyber actors, under its cyber-related sanctions program and other sanctions programs, including perpetrators of ransomware attacks and those who facilitate ransomware transactions.
- September 2021: OFAC issues an updated advisory OFAC urging companies that engage with victims of ransomware attacks (i.e., cyber insurers, digital forensics and incident response firms and financial institutions) to implement sanctions compliance programs that account for the risk that a ransomware payment may involve a Specially Designated Nationals and Blocked Persons List ("SDN List").

TMHCC claims team always has OFAC clearance before approving ransom reimbursements.





Why is Ransomware Harmful?



- Information is extremely valuable as organizations cannot function without access to their files.
- Ransomware is low risk for criminals, as they request their ransom to be paid in Bitcoin, so they remain completely anonymous.
- Once downloaded into a victim's computer, it can spread to all connected devices.
- Ransomware is used to steal data and/or move laterally within a corporate network to perform reconnaissance.
- All organizations are potential victims and might have to pay the ransom to regain access to their data.





CYBER RISK MANAGEMENT



- 24/7 access to CyberNET risk management website provides your Insureds with vital information, training, and support to prepare for, defend against, and respond to a cyber incident.
- Best Practices Guidelines
- Risk Assessments and Fitness Checklists
- Incident Response Planning
- Online Training Courses
- Sample Policies / Procedures



YOUR TOP CYBER THREATS



<u>Question</u>: If you pay the ransom, do you get your data back? <u>Answer</u>: Sometimes...



Your finance department unknowingly wire transferred \$150,000 to a cybercriminal. Now what?

Learn How to Stop Ransomware >

Learn How to Stop Email Fraud >

NEW ATTACKS



US Authorities Arrest REVil Ransomware Operator

TOP SOLUTIONS



NEXT GEN ANTI-VIRUS

Top 8 Ways to Beat Ransomware



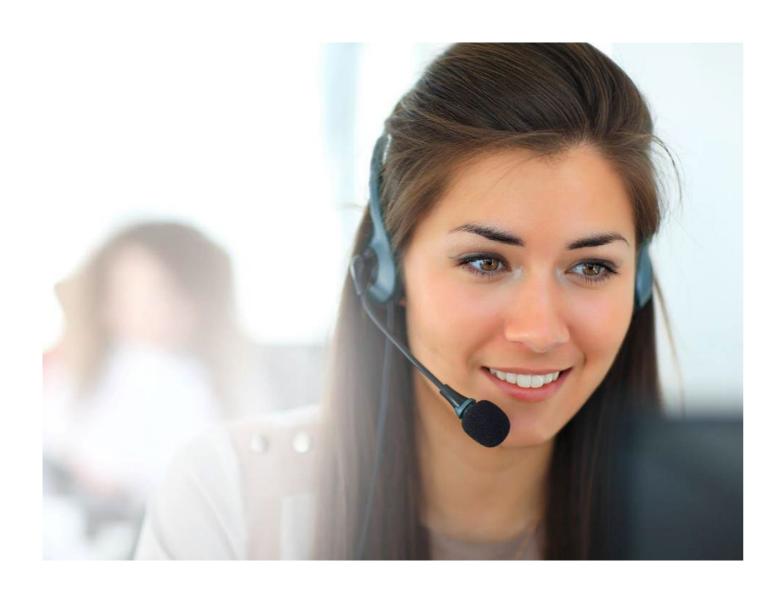
- 1. Train Employees
- 2. RDP & Access Control
- 3. Install Software Patches
- 4. Create Offline Backups
- 5. Implement Multi-factor Authentication (MFA)
- 6. Install & Update "Next-Gent" Antivirus
- 7. Email Security Settings
- 8. Endpoint Security





Claims Handling





- Just like a normal claim, Members report claims directly to Catholic Mutual.
- Claims are forwarded to TMHCC
- Single Point of Contact
- Logical Procedural Steps
- Consistent communication and coordination with Catholic Mutual and policyholders



Questions?



Thank You!

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Learn more about Tokio Marine HCC:

www.tmhcc.com

DATA SOURCES by SLIDE – Cyber Liability Coverage



Ripped from the Headlines:

Colonial Pipeline- Bloomberg.com: https://www.bloomberg.com/news/articles/2021-06-04/hackers-breached-colonial-pipeline-using-compromised-password

Blackbaud-

Benefitspro.com- https://www.benefitspro.com/2020/10/12/blackbaud-ransomware-attack-may-have-impacted-millions-of-individuals/?slreturn=20220011161218

Identity Theft Resource Center- https://www.idtheftcenter.org/post/blackbaud-data-breach-leaves-lasting-impact-on-u-s-and-international-nonprofits/

CWT- Reuters.com- https://www.reuters.com/article/us-cyber-cwt-ransom/payment-sent-travel-giant-cwt-pays-4-5-million-ransom-to-cyber-criminals-idUSKCN24W25W

Ryuk- Securitymagazine.com- https://www.securitymagazine.com/articles/93769-ryuk-ransomware-responsible-for-one-third-of-all-ransomware-attacks-in-2020 Zdnet.com- https://www.zdnet.com/article/ryuk-gang-estimated-to-have-made-more-than-150-million-from-ransomware-attacks/

WannaCry- BBC News- https://www.bbc.com/news/technology-39901382

"White House Holds Global Ransomware Meeting"-posted on TMHCC cyberNET and Catholic Mutual Group risk management website October 18, 2021

Risk Scenario Slides

These risk/claim scenarios are provided here for illustrative purposes only. The scenarios are examples of the types of claims and associated costs commonly seen and do not represent a comprehensive explanation of any one particular claim. While the subject coverage is designed to address certain risks and associated costs, coverage may not be available in all circumstances. Each reported claim will be evaluated on a case-by-case basis. The actual policy or endorsement language should be referenced to determine coverage applicability and availability.

